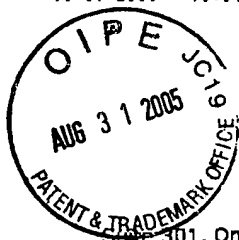


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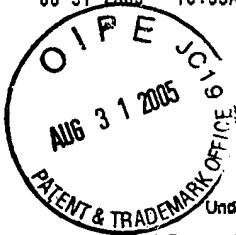
TO:	USPTO	FAX NO.:	703/746-9195
FROM:	Daniel N. Calder	ADMIN. ASST.:	Fran Petrillo
APPLN. NO.:	10/524,335	ATTY. DOCKET NO.:	MAT-8666US
TITLE OF APPLN.: POWER SUPPLY APPARATUS FOR VEHICLE (AS AMENDED)			
FILING DATE:	February 11, 2005	ART UNIT:	3683
FIRST INVENTOR:	Toshihiko OHASHI, et al.	CONF. NO.:	6948
TITLE OF DOCUMENT (and List of Attachments): REQUEST FOR CORRECTED FILING RECEIPT			
CUSTOMER NO. 23122			

Total Number of Pages: 12 (including this form)

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PTO/SB/21 (09-04)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/524,335
	Filing Date	February 11, 2005
	First Named Inventor	Toshihiko OHASHI, et al.
	Art Unit	3683
	Examiner Name	To Be Assigned
	Attorney Docket No.	MAT-8666US
Total Number of Pages in This Submission //		

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): > Return postcard > Request for Corrected Filing Receipt > Copy of Filing Receipt
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Printed Name	Daniel N. Calder		
Date	August 31, 2005	Reg. No.	27,424

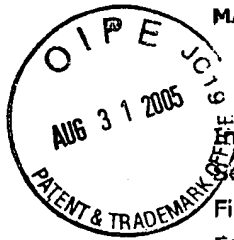
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MAT-8666US

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Toshihiko OHASHI, et al.

Serial No.: 10/524,335

Group No.: 3683

Filed: February 11, 2005

Examiner: To Be Assigned

For: POWER SUPPLY APPARATUS FOR
VEHICLE (AS AMENDED)

Filing Receipt Corrections
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Commissioner for Patents
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Alexandria, VA 22313-1450
 Fax Number: (703) 746-9195

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Error in

1. ☐ Applicant's name
2. ☒ Applicants' address
3. ☒ Title
4. ☐ Filing Date
5. ☐ Serial Number
6. ☐ Foreign/PCT Application Reference
7. ☐ Other

Correct data

- 1.
2. Osaka, JAPAN; Osaka, JAPAN
3. POWER SUPPLY APPARATUS FOR
VEHICLE (per Preliminary Amendment filed
02/11/05)
- 4.
- 5.
- 6.
- 7.

3. No fee is due.

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Respectfully submitted,

Daniel N. Calder

Daniel N. Calder, Reg. 27,424

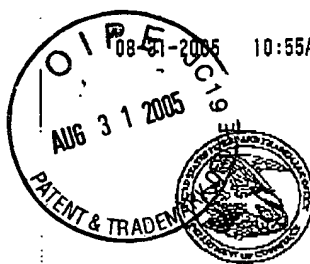
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T-529 P.004/012 F-845

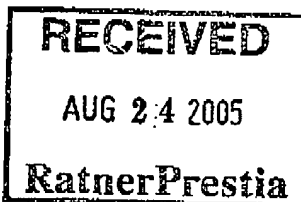
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10/524,335	02/11/2005	3683	900	MAT-8666US	7	10	1

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CONFIRMATION NO. 6948
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Applicant(s)

Osaka
Toshihiko Ohashi, ~~Hirakata-shi~~, JAPAN;
Yousuke Mitani, ~~Tokatsuki-shi~~, JAPAN;

Osaka
Power of Attorney: The patent practitioners associated with Customer Number 23122.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/09686 07/01/2004

Foreign Applications

JAPAN 2003-193426 07/08/2003

Projected Publication Date: 11/24/2005

Non-Publication Request: No

Early Publication Request: No

Title

apparatus
Power supply for vehicle



COPY

MAT-8666US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: To Be Assigned
Applicant: Toshihiko OHASHI, et al.
Filed: Herewith
Title: POWER SUPPLY APPARATUS FOR VEHICLE
(AS AMENDED)
TC/A.U.: To Be Assigned
Examiner: To Be Assigned
Confirmation No.: To Be Assigned
Docket No.: MAT-8666US

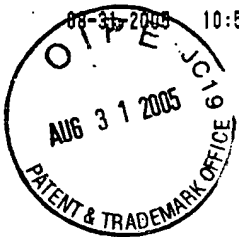
PRELIMINARY AMENDMENT

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Sir:

Prior to examination, please amend the above-identified application as follows:

- ☒ **Amendments to the Title** begin on page 2 of this paper.
- ☒ **Amendments to the Specification** begin on page 3 of this paper.
- ☒ **Amendments to the Claims** are reflected in the listing of claims which begins on page 4 of this paper.
- ☒ **Amendments to the Drawings** begin on page 7 of this paper and include an attached replacement sheet.
- ☐ **Amendments to the Abstract** are on page of this paper. A clean version of the Abstract is on page of this paper.
- ☐ **Remarks/Arguments** begin on page of this paper.



08-31-2005 10:56AM FROM:RatnerPrestia

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T-529 P.006/012 F-945

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Amendments to the Title:

Please replace the title with the following:

| POWER SUPPLY APPARATUS FOR VEHICLE

08-31-2005

10:56AM

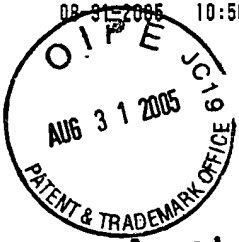
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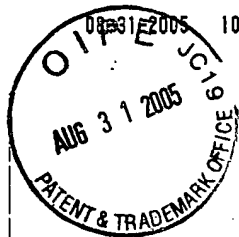
Amendments to the Specification:

Please add the following new paragraph after the Title and before the first paragraph on page 1:

THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP2004/009686.

Please replace the paragraph, beginning at page 1, line 25, with the following rewritten paragraph:

In this type of power supply apparatus for a vehicle, since an auxiliary power supply is responsible for braking of a vehicle in an emergency, it is extremely important to supply electric power ~~to from~~ the auxiliary power supply reliably in an emergency. Therefore, it is important to surely predict the lifetime of the auxiliary power supply and to detect a state of the auxiliary power supply at any time.



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Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Original) A power supply apparatus for a vehicle, comprising:

an electronic controller for outputting information for controlling braking of the vehicle to a brake based on at least one of information from a brake pedal and information in response to a moving state of the vehicle;

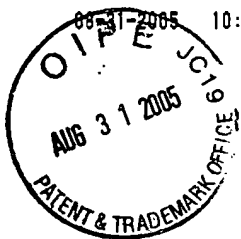
a battery for supplying electric power to the brake via the electronic controller;

an auxiliary power supply including a capacitor unit formed of a plurality of capacitors and a detection unit for detecting an abnormality in the capacitor unit, the auxiliary power supply supplying electric power to the brake via the electronic controller when the battery is in an abnormal state;

wherein, in charging or discharging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit, measures an internal capacitance value of the capacitor unit from a rate of change of voltage per unit time of the capacitor unit, and detects an abnormality in the capacitor unit based on the measured internal resistance value and internal capacitance value.

- 2 (Original) The power supply apparatus for a vehicle according to claim 1, wherein, in charging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit from a voltage obtained when charging is started or a voltage obtained when the charging is interrupted, and measures an internal capacitance value of the capacitor unit from a rate of the change of voltage per unit time of the capacitor unit in charging.

3. (Original) The power supply apparatus for a vehicle according to claim 1, wherein, in discharging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit from a voltage obtained when discharging is started or a voltage obtained when the discharging is interrupted, and measures an internal capacitance value of



MAT-8666US

the capacitor unit from a rate of change of voltage per unit time of the capacitor unit in discharging.

4. (Currently Amended) The power supply apparatus for a vehicle according to claim 2,

wherein the detection unit measures temperature of the capacitor unit in the charging,

corrects the internal capacitance value and the internal resistance value at each temperature based on a capacitance value difference and a resistance value differences between each of the measured internal capacitance value and the measured internal resistance value and each of a standard internal capacitance value and a standard internal resistance value of the capacitor unit, which are initialized in advance, at the temperature measured in the charging, and

judges whether or not the capacitor unit is in a normal state by comparing the corrected internal resistance value with a limit internal resistance value with respect to the corrected internal capacitance value, at the each temperature.

5. (Currently Amended) The power supply apparatus for a vehicle according to claim 3,

wherein the detection unit measures temperature of the capacitor unit in the discharging,

corrects the internal capacitance value and the internal resistance value at each temperature based on a capacitance value difference and a resistance value differences between each of the measured internal capacitance value and the measured internal resistance value and each of a standard internal capacitance value and a standard internal resistance value of the capacitor unit, which are initialized in advance, at the temperature measured in the discharging, and



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judges whether or not the capacitor unit is in a normal state by comparing the corrected internal resistance value with a limit internal resistance value with respect to the corrected internal capacitance value, at the each temperature.

6. (Currently Amended) The power supply apparatus for a vehicle according to any of claims 1 to 5, wherein the rate of change of voltage is measured multiple times every predetermined time.

7. (New) The power supply apparatus for a vehicle according to claim 2, wherein the rate of change of voltage is measured multiple times every predetermined time.

8. (New) The power supply apparatus for a vehicle according to claim 3, wherein the rate of change of voltage is measured multiple times every predetermined time.

9. (New) The power supply apparatus for a vehicle according to claim 4, wherein the rate of change of voltage is measured multiple times every predetermined time.

10. (New) The power supply apparatus for a vehicle according to claim 5, wherein the rate of change of voltage is measured multiple times every predetermined time.



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Amendments to the Drawings:

Please delete page "7/7" of the drawings, also labeled as "Reference numerals in the drawings" in its entirety.

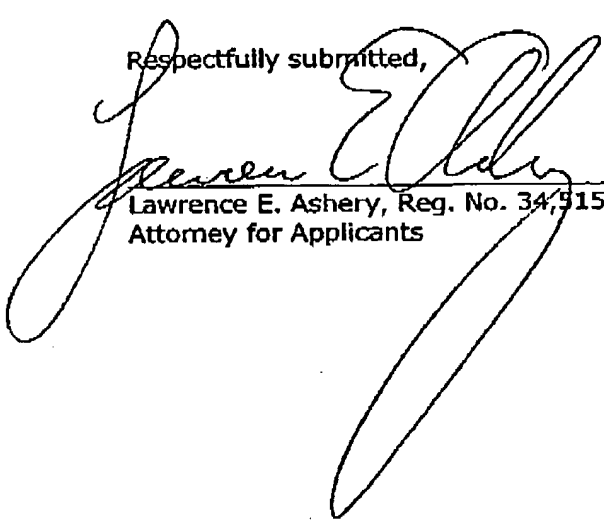
The attached sheet of drawings includes changes to Figure 3. This sheet replaces the original sheet.

Attachment



MAT-8666US

Respectfully submitted,


Lawrence E. Ashery, Reg. No. 34,915
Attorney for Applicants

LEA:ds

Attachment: Figure 3 (1 sheet)

Dated: February 11, 2005

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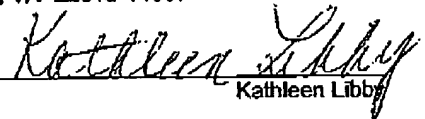
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Kathleen Libby

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